In re application of:

Tadayoni-Rebek et al.

Appl. No. 09/927,436

Filed: August 13, 2001

For: Highly Homogenous Molecular

Markers for Electrophoresis

Confirmation No. 6227

Art Unit: 1645

Examiner: To be assigned

Atty. Docket: 0942.5300001/RWE/AGU

Information Disclosure Statement

Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

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This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Robert W. Esmond

Attorney for Applicants

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Registration No. 32,893

March 4, 2002

1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 (202) 371-2600

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EXAMINER INITIAL	DOCUMENT DATE NUMBER		DATE	NAME	CLAS	SS SUB- CLASS	FILING DATE
	AA1	5,616,228	04/01/1997	Nasu et al.	204	603	09/28/1995
	AB1	5,643,758	07/01/1997	Guan et al.	435	69.7	01/12/1995
	AC1	5,834,247	11/10/1998	Comb et al.	435	69.7	03/05/1997
	AD1	5,992,858	07/13/1999	Rothschild et al.	536	24.1	06/27/1997
	AE1	6,013,165	01/11/2000	Wiktorowicz et al.	204	456	05/22/1998
·	AF1	6,043,025	03/28/2000	Minden et al.	435	4	10/10/1997
	AG1	6,045,995	04/04/2000	Cummins et al.	435	6	08/24/1994
- <u></u>	AH1	6,184,355 B1	02/06/2001	James, Jr. et al.	530	370	07/21/1999
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	AP1						Yes No
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	AS			"Protein Engineering by Academic Press (October	_	d Protein Lig	ation," Meth.
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	AS	2	Cotton, G.J. & Biol. 6:R2	. and Muir, T.W. !47-R256, Elsevi	., "Peptide ligation and ier Science Ltd. (Septem	d its appli aber 1999).	cation to	protein engir	neerin g," <i>Chem</i> .
EVAMINED	AT	2	Cowburn, D. Enzymol. 339	and Muir, T.W., :41-54, Academi	, "Segmental Isotopic La ic Press (June 2001).				gation," Meth.
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Biochemistry and Molecular Biology, Inc. (February 1999).

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EXAMINER

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Evans, T.C. et al., "The in Vitro Ligation of Bacterially Expressed Proteins Using an Intein from Methanobacterium thermoautotrophicum," J. Biol. Chem. 274:3923-3926, The American Society for

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	AS	4				arkers for landmarking foophoresis 22:2903-2907,				
	AT	4	Geoghegan, I Bioconjugate	K.F. et al., "Dye Chem. 11:71-77,	e-Pa Amo	ir Reporter Systems for crican Chemical Society	Protein-Pe (December	eptide 1999).	Molecular In	teractions,"

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 6 of 9 ATTY. DOCKET NO. APPLICATION NO. 0942.5300001/RWE/AGU 09/927,436 MAR 0 4 2002 FORM PTO-1449 APPLICANT INFORMATION DISCLOSURE STATEMENT Tadayoni-Rebek et al. FILING DATE **GROUP** August 13, 2001 1645 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER NAME FILING DATE DATE CLASS SUB-CLASS AA AB AC AD ΑE AF AG AH ΑI AJ AK FOREIGN PATENT DOCUMENTS **EXAMINER** COUNTRY INITIAL DOCUMENT NUMBER DATE CLASS SUB-CLASS TRANSLATION Yes AL No Yes AM No Yes AN No Yes AO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Muir, T.W. et al., "Expressed protein ligation: A general method for protein engineering," PNAS AR <u>6</u> 95:6705-6710, The National Academy of Sciences of the USA (1998). Roy, R.S. et al., "Expressed protein ligation to probe regiospecificity of heterocyclization in the peptide antibiotic microcin B17," Chem. & Biol. 6:789-799, Elsevier Science Ltd (October AS <u>6</u> 1999).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

3:1017-1024, Wiley-VCH (1997).

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Severin, K. et al., "Peptide Self-Replication via Template-Directed Ligation," Chem. Eur. J.

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ATTY. DOCKET NO. 0942.5300001/RWE/AGU

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